PATENT COOPERATION TREATY

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

KEC'D	0	2	APR	2007
WIPO				PCT

Applicant's or agent's file reference	FOR FURTHER ACT	TION	See Form PCT/IPEA/416	
FIS920030129 International application No.	International filing date (a	(m/month/year)	Priority date (day/month/year)	
1	,		Thomas date (daysmossias)	
PCT/US04/02648 International Patent Classification (IPC)	30 January 2004 (30.01.2)			
i	7 IIIIIOIM OMOJIIOMIOII MA	0		
IPC: H01L 21/8242(2006.01) USPC: 438/243,245,249;257/301,302,3	304			
Applicant				
INTERNATIONAL BUSINESS MACHI				
This report is the internat Examining Authority unde	1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.			
2. This REPORT consists of	a total of \sum sheets, incli	ding this cover sheet	•	
3. This report is also accompa	anied by ANNEXES, cor	nprising:	:	
a. (sent to the applica	nt and to the Internation	al Bureau) a total of	sheets, as follows:	
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).				
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.				
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).				
4. This report contains indica	tions relating to the follo	wing items:		
K-7				
Box No. II Pr	iority			
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
) —	uck of unity of invention			
Box No. V Re	easoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
Box No. VI Co	ertain documents cited			
Box No. VII Co	rtain defects in the international application			
Box No. VIII Co	ertain observations on the international application			
Date of submission of the demand		Date of completion	of this report	
29 November 2005 (29.11.2005)		15 March 2007 (15.03	.2007)	
Name and mailing address of the IPEA/ US		Authorized officer	Wen Due For	
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents		Matthew Smith	year Some for	
P.O. Box 1450		V		
Facsimile No. (571) 273-3201	Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201 Telephone No. 571-272-1625			
Form PCT/IPEA/409 (cover sheet)(April 2005)				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

I	International application No.
	PCT/US04/02648
ı	

INTERNATION:	
ox No. I Basis of the report	
. With regard to the language, this report is based on:	
the international application in the language in which it was fi	iled.
a translation of the international application into English, wh	ich is the language of a translation furnished for the
	Note that the same of the same
purposes of:	
international search (under Rules 12.3 and 23.1(b))	12 4(a))
publication of the international application (under Rule	12.7(a))
international preliminary examination (under Rules 55.	2(a) and/or 55.5(a))
 With regard to the elements of the international application, this report is to the receiving Office in response to an invitation under Article 14 are r annexed to this report): 	based on (replacement sheets which have been furnished referred to in this report as "originally filed" and are not
the international application as originally filed/furnished	
N 44 - description:	
pages 1-13 as originally filed/furnished pages* NONE received by this Authority on	
pages* NONE received by this Authority on	
the claims: pages 14-21 as originally filed/furnished	
	ment) under Article 19
pages* NONE received by this Authority on	
pages* NONE received by this Authority oil	
the drawings:	
pages 1/5-5/5 as originally filed/furnished	
pages* NONE received by this Authority on	
a sequence listing and/or any related table(s) - see Supplem	ental Box Relating to Sequence Listing.
a sequence listing and/or any related table(s)	
3. The amendments have resulted in the cancellation of:	
U. description pages	
No.	
the standard sheets/figs	
Listing (appoint):	
any table(s) related to the sequence listing (specify)):
	the this report and listed below had not been made,
4. This report has been established as if (some of) the amendments since they have been considered to go beyond the disclosure as fi	,
the description, pages	
the claims, Nos.	
the drawings, sheets/figs	
the drawings, sneets/rigs the sequence listing (specify):	
any table(s) related to the sequence listing (specify	ν):
* If item 4 applies, some or all of those sheets may be marked "sup	perseded."
* If item 4 applies, some of all of the Sylvinos	

Form PCT/IPEA/409 (Box No. 1) (April 2005)

INTERNATIONAL	PRELIMINARY REPORT	ON PATENTABILITY
---------------	--------------------	------------------

International application No. PCT/US04/02648

INTERNATIONAL PRELIMINARY REPORT	· · · · · · · · · · · · · · · · · · ·			
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. Statement				
Novelty (N)	Claims 1-20	YES		
Hoverty (14)	Claims NONE			
		VICO.		
Inventive Step (IS)	Claims 1-20			
	Claims NONE	NO		
		YES		
Industrial Applicability (IA)	Claims 1-20			
	Claims NONE	110		
Claims 15-20 meet the criteria set out in PCT Articlin an integrated circuit substrate comprising a secon layer and in electrical contact with the first conduct the first and second conductive storage plates being dielectric layers (claim 15).	d college to storage print a print of the trent	ch above the second capacitor plate,		